

Supplementary Material

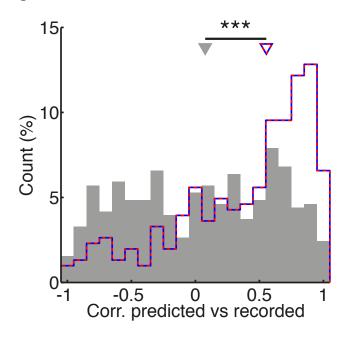
Model-based analysis of patterned motion processing in mouse primary visual cortex

Dylan R Muir^{1,2†}, Morgane M Roth^{1,2†}, Fritjof Helmchen¹, Björn M Kampa^{1,3*}

* Correspondence: Dylan R Muir and Morgane M Roth, Biozentrum, University of Basel, Klingelbergstrasse 50/70, 4056 Basel, Switzerland.

dylan.muir@unibas.ch and morgane.roth@unibas.ch

1. Supplementary Figures and Tables



Supplementary Figure 1. Predicted responses made by our model-based analysis framework are significantly more strongly correlated with recorded responses for the set of classified neurons (dashed) than for unclassified neurons (grey) (medians 0.55 vs 0.08; p < 0.001, rank-sum test). For classified neurons (both *component-classified* and *pattern-classified*), the correlation was measured between the trial-averaged recorded responses and the average predicted response for the model matching the classification of that neuron. For unclassified neurons, correlations were measured between the recorded responses and both component and pattern models, then pooled.

[†]Equal contribution

¹Brain Research Institute (HIFO), University of Zürich, Zürich, Switzerland

²Current address: Biozentrum, University of Basel, Basel, Switzerland

³Current address: Department of Neurophysiology, Institute of Biology 2, RWTH Aachen University, Aachen, Germany.